

Title (en)

IMPROVED HYDROPHOBICITY WITH NANOFIBER AND FLUOROPOLYMER COATING

Title (de)

VERBESSERTE HYDROPHOBIE MIT NANOFASER- UND FLUORPOLYMERBESCHICHTUNG

Title (fr)

MEILLEURE HYDROPHOBICITÉ AVEC UN REVÊTEMENT EN NANOFIBRES ET FLUOROPOLYMÈRE

Publication

EP 2948299 A4 20160831 (EN)

Application

EP 14743516 A 20140124

Priority

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- US 2014012937 W 20140124

Abstract (en)

[origin: WO2014116941A1] The invention relates to improved hydrophobicity and water protection of a fibrous fabric substrate (cotton, synthetics and/or their blends) by depositing a thin nanofiber layer and coating with a dispersion of fluoropolymers (fluorinated acrylic copolymers) that are alternative perfluorinated chemicals (PFCs) based on short-chain chemistry of varying chain length (C4, C6, C8, C10, C12, C14, etc.) perfluoroalkyl constituents.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [XI] US 2008220676 A1 20080911 - MARIN ROBERT ANTHONY [US], et al
- [X] US 2008104738 A1 20080508 - CONLEY JILL A [US], et al
- [E] WO 2014144536 A1 20140918 - PATEL SHAGUFTA [US], et al
- See references of WO 2014116941A1

Designated contracting state (EPC)

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